SEQUENCE LISTING

<110> National Public Health Institute

 $<\!120>$ Identification of SNPs associated with hyperlipidemia, dyslipidemia and defective carbohydrate metabolism

<130> к 1114 рст <160> 1 <170> PatentIn version 3.1 <210> 1 <211> 5687 <212> DNA <213> Human <220> <221> variation <222> (3966)..(3966)<223> r = adenine (a) or guanine (g):adenine is wild-type associated; quanine is disease-associated <220> <221> variation <222> (5205)..(5205)y = cytosine (c) or thymine (t): thymine is wild-type associated; cytosine is disease-associated <223> <400> ttgaaaattt tccttggata ggaaaggttt ggaggacctt atgggtagag aatttccaaa 60 aatcttgccc cttttgtgtt gggattatct tattgctttg tactgtgtag ctgtttcttt 120 ctggaggcat gtctgcccag ctctttgttt ttcctgccct ctggctgggt gtcagggtcc 180 taaggcagag cttgtaggtg gattcttccc cctttgtctc ttcttcagaa ccctgttttt 240 ttttttttta ccccttcttg ctcaggctta gttgatttgg agttgtcata gcaacatttt 300 agcaacagtg ttgttctgca ggaaggcttg atgaataaaa tagagaatgc ttgaagagga 360 tccacttggg ctttagggtt tctaacagat tatataaatc tggatacccc aaaacaagag 420

ccagtggtag tgggcttcag atttcctctt cctaggtttg aaaacagaaa tgtcttgatg

gacaacatgt ggctgagaaa ctggaaqaag catcagtgtc catgacactg tattttttga

480

540

600

			2/6		*	
				ctgccatcat		660
				ggtgcggtgg		720
taatccaagc	actttgggag	gccgaggcag	gcggatcacc	tgaggtcagg	agttccagac	780
cagcctggcc	aatatggtaa	aaccccatct	ctactgaaaa	tacaaaaatt	agctgggcgt	840
ggtggtgggc	acctataatc	ccagctattc	aggaggctga	ggcaggagaa	tcacttgaac	900
ccaggagatg	gaggttgtaa	gccgagattg	tgccactgca	ctccagcctg	ggtgacagag	960
caagattctg	tctcagaaaa	aaaaaaaaa	aaaagaaaga	aatgtgttgt	ttcggccagg	1020
tgcagtggct	cacacctgta	atcccagcac	tttgggaggc	tgccgaggtg	gacagatcat	1080
gctctcagga	gttcgagacc	agccgggcca	acatggtgaa	accccgtctc	tactaaaaat	1140
acaaaaatta	gccaggcgtg	gtggtgtgca	cctgtaatcc	cagctactcc	ggaggctgag	1200
gcaggagaat	cacttgaacc	tgggaggcag	aggttgcagt	gagctgagat	cgcgccactg	1260
cactccagcc	tgggtgacag	agagagactc	tgtctcaaaa	aaaaaaaaa	aaaaaagtg	1320
ttgtttctgt	cttccagtat	aattatccac	tctccaccag	gagttggagt	gataatggag	1380
ggatggggaa	cactatttgt	agccttgctt	tttcaatcac	tgtaggccag	tcctcaacat	1440
cagtatggtg	gaggctgatt	gtcccctgca	gatgactggg	ttattttcct	ggctatgtgt	1500
tcatggaacc	taagttctag	aaccagagat	actgttctgt	ttcctaaact	cattgcaaac	1560
ttcatgattt	ctaccaggac	ttagcactca	ggcctgtgaa	tcaggagata	caaagacctc	1620
caaaaaagga	ccagttcctc	ggatgtgccc	cctcacagag	agatgaaggg	gtgagtgaag	1680
aagaggtagg	gtctgggatg	aaagatgggt	ggcctggaag	aatgcaaaat	gaccaagagc	1740
actgcctctg	gagtcaggca	gacctggatt	caggttctac	tctatcactt	actgtgtgat	1800
ttggtttctc	tatctataaa	atggaagtag	tgctatctat	ctcgtggtgc	tgtttttagt	1860
actaaataag	attacatgta	atgtacttag	cttagtgctt	atgtacatag	taaacagtaa	1920
acactagttg	ttattctaac	ctaacccagc	ttctgttggg	aatgccaatg	agtttgcagc	1980
catatgttac	tgggccagtg	agcttctcat	tgacttcttc	tcatactctt	ccttttgtcc	2040
tttcaccaca	aacaggcagc	agaaaacagc	tgaaacggaa	gaggggacag	tgcagattca	2100
ggaaggtgag	tgctagaaac	agaaccaaga	ctaagaaccc	atcatggcct	cccttccttc	2160
cccaccagac	catctcctgt	gcatcctcct	ccttccgtga	catgcaaatg	gaacgggggt	2220
agaaaggcag	ttaactcaca	gacttttcct	ttgttcttt	aattcaggtg	cagtggctac	2280
tggggaagac	ccaaccagtg	tggctattgc	cagcatccag	tcagctgcca	ccttccctga	2340
ccccaacgtc	aagtacgtct	tccgaactga	gaatgggggc	caggtaaggg	agggggccag	2400
gtggctgcag	gtgttatctg	gggttgggat	tgagggaggt	aattgaacat	gtcttgggga	2460
gacctggctt	ggaggatgag	ttgaaagagt	ggactgttgc	aggggaggga	ggtgctaata	2520
ctggagtaga	gactggtgtg	aggttagatg	tatgctgaaa	cctctgtgtg	gggaaagaag	2580
ggagaatggc	tgaatccatg	tctctgaagg	actttgtttt	ggggccctat	ccaagggaag	2640
ctttatgagg	ggccctagga	ttcccaacac	ttaatctttt	cttctctctt	cactccctct	2700

gccttcctct acacttctag gtgatgtaca gggtgatcca ggtgtctgag gggcagctgg 2760 atggccaaac tgagggaact ggcgccatca gtggctaccc tgccactcaa tccatgaccc 2820 aggtacaggg tatgggctgg ggaggtcact agagttctga gaagtaagat gaagaaggga 2880 atcagtagga tgggggtgaa gctaggaaca gtgaggcatc taaggctgcc ttgtcccaaa 2940 gcactaggct ctccttttct ggatgtttct ctctctctct ctctctctct ccaccctacc 3000 3060 taccacccca acggatagaa gctgcagagt ggtgtagtgg gaagaagttt ttgactgtta ccagaatcag ttttcttgct ccccttccca ggcggtgatc cagggtgctt tcaccagtga 3120 3180 tgatgcagtt gacacggagg ggacagctgc tgagacgcac tatacttact tccccagcac ggcagtggga gatggggcag ggggtaccac atcggggagt acagctgctg ttgttactac 3240 ccagggctca gaggcactgc tggggcaggc gacccctcct ggcactggtg agatattgca 3300 3360 tgaggatgct ggctgaaagg gctagaatag gctgtgggac atgactggta ggcagtgagc cttcactcat gactcttagt gatcattaag acctggacag gcagtgagtc tggggctgct 3420 cttctattag catgttcttt ttagaggagg ggaccagggt cttcacctca gggcttggtg 3480 aggttcctac ccatgtcctg acagaaccta ccctgcatct tcacaggtca attctttgtg 3540 atgatgtcac cacaagaagt actgcaggga ggaagccagc gctcaattgc ccctaggact 3600 cacccttatt ccccgtgagt gacccttgtt tcttctcaga ttccgtaagt ggtttttttt 3660 tttttttttt ttttttgaga cagagtcttg ctctgtcacc caggctggag tgcagtggca 3720 3780 tgatctcagc tcactgcaac ctctgcttcc agggttcaag cgtttctcat gcctcagcct cctgagtagc tggaactaca gacatgtacc accaccctg gctaattttt gtatctttag 3840 3900 tagagacagg gtttcaccat gttggccagg ctggtctcga actcctgacc tcaagtgatc 3960 cgcctgcctc ggcctcccaa agtgctggga ttacaggtgt gagacaccac acctagctac 4020 cataartggt cctaatacct gctaaatctt gtataattcc ttaaccccaa acttcaatca tgtattttgt cttcttactc tggccaccct gggctctgtt gtcaggaagt cagaagctcc 4080 4140 ccggacgact cgggatgaga aacgcagggc tcagcataat gaaggtaggt atgatctggg tggagctaga agctgtctgg tgtgatctca gcagtgatgt ctgaggggag gagggattag 4200 4260 gtaattttac cctgggactt gtggcgagtt ttcactgagt caccttgtcc tccactttgc cccacagtgg agcgtcgccg ccgagacaag atcaacaact ggatcgtgca gctctccaag 4320 ataatcccag actgctctat ggagagcacc aagtctggcc aggtcatgga aagaccctgg 4380 tagtgggcag gatgcctgaa ttctgcctcc tggtattgtt tccagaaatg gtagagagag 4440 gggcacacat gacagtagtc ttatctctcc ctgaggttcc tgtatccctg ggagatatta 4500 taccaccttc cttagatgaa aatgaggtcc aaagtgtgaa cctacttttg gaaagcaagc 4560 tgggtatctg aaatcctagt tctcattttg ttgaccttat cttgcagagt aaaggtggga 4620 ttctatccaa agcttgtgat tatatccagg agcttcggca gagtaaccac cgcttgtctg 4680 4740 aagaactgca gggacttgac caactgcagc tggacaatga cgtgcttcga caacaggtca

WO 2005/077974 PCT/EP2005/001624

			4/6			
gactcctacc	cccagtgcag	cccttctcag	ttctgctagc	cactgaccca	gtttgacacc	4800
ctctactttg	ttctccatgg	agaaggcttc	atcttttccc	cctcaccagt	ggatgtctga	4860
atacattcag	gggcttggaa	gtgccagctt	tactacccat	tccctttact	gcctccttcc	4920
catgtcaggt	ggaagatctt	aaaaacaaga	atctgctgct	tcgagctcag	ttgcggcacc	4980
acggattaga	ggtcgtcatc	aagaatgaca	gcaactaact	atggggattc	aggggctttg	5040
ggcccaagaa	ctgcagatag	cccaggagca	acagcctaat	cccgtgcccc	tttccttcac	5100
tgccccactt	ctggcatggg	acagggggaa	gttcagaagg	tgtgtccttg	aactgaggcc	5160
ctgtgatatg	gcggcctgca	gtggtgtgaa	acacacaatg	tggaygtgca	ctgacagcct	5220
tgcccacccc	caccatgcag	cccctgggcc	cttgtgctcc	tctcgcacaa	tgcatgtgct	5280
gtctccatgc	tggatactgg	acacactaaa	ctctggggct	tgtcctgtgc	ttgcttagag	5340
tgcccagcag	aggtttgctg	acaggtgatg	ctctggcttg	ccccaggact	ctggcacttc	5400
cattggttct	tcctttccct	ggagctgagg	tttagatgtg	caacctgtgg	ctcaggggag	5460
caagcttaca	caagaagtga	gggaaggatg	tttagcagtg	gctggtgccc	atgaagagga	5520
gattggccag	tgagaagctg	aggcctatgc	agacatctct	ggagccagag	agaacaacag	5580
gcaggggccc	acttggggcc	ttccccttg	tgggggtcgt	tttttttt	tcttttcttt	5640
tttttttt	tttttttt	tttttaagat	aaaattgttc	aaagcca		5687